HP 33s Scientific Calculator

HP's ultimate scientific calculator—Pocket sized RPN programmability for professional performance

Ideal for engineers, surveyors, college students, scientists and medical professionals. Executing scientific projects require speed accuracy, functionality and dependability for success. The HP 33S scientific programmable calculator is designed to deliver them all, with features that include your choice of RPN* and algebraic data-entry modes, 31KB user memory, a powerful two-line display, and the timesaving HP Solve application. In addition the HP 33S was built for the mobile professional with a compact, lightweight design and rubber side grips for increased comfort.

Key features
- 31KB RAM user memory
- Pocket-sized - take it anywhere
- Algebraic and RPN data entry. Reverse Polish Notation (RPN) efficiently expresses calculation sequences without parentheses – reducing the number of keystrokes.
- HP Solve application - write and solve equations for any variable without rewriting the original equation
- Edit, undo and delete capability
- Comfortable rubber side grips

Programming features
- keystroke programming
- FLAGS: 0-11; SF, CF, FS?
- X?Y, X?,<, >, =, ≤, ≥, ≠
- SHOW: press and hold [SHOW] to display CK=value length
- MEM: press [MEM] for the Catalog of program labels
- XEQ, R/S: execute a labeled program
- GTO, LBL, SOLVE, INPUT, VIEW, ISG, DSE, FN=, RTN, PSE key
- Solving and integrating programs
- 27-independent memory/storage and recall math statistics programs: curve fitting, straight line, exponential, logarithmic and power

Statistical functions
- one/two variable statistics
- linear regression
- Σ+: enter data point
- Σ-: remove data point
- SUM: n, Σx, Σy, Σx2, Σy2, Σxy
- S, σ :, Sx, Sy, σx, σy
- x, y:x, y, xw
- L.R.: r, m, b, x', y'

Base-n function
- binary, octal, decimal, and hexadecimal number calculation and conversion
- complement calculation

Mathematical functions
- trigonometric, inverse-trigonometric, hyperbolic
- polar-rectangular coordinate conversion
- power, square root, square, cube root, cube, reciprocal
- logarithmic and exponential
- factorial
- RND

Fraction mode
- /c function
- FDISP function: fraction, decimal conversion
- most precise fraction
- factors of denominator
- fixed denominator

Other features
- 40-physics constants
- scientific engineering notation
- unit conversions: →cm, →in, →l, →gal, →kg, →lb, →°F , →°C
- time conversions: →HR, →HMS
- engineering notation conversions: →ENG, ←ENG
- % CHG key
- internal Napier precision

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Specifications

CPU	SPLB31A
Display size	2 lines x 14 characters + indicators
Display Type	LCD
LCD	14 character dot matrix (5 × 7) × 2 lines + indicators
Contrast	Adjustable
Entry-system logic	RPN & Algebraic
Built-in functions	100+
Menus, prompts, etc.	Yes
Internal precision	15 digits
Pending operations	13-level parenthesis or maximum number of pending operation: 13 @ALG
Memory	27 Memory registers; 31KB
Keyboard	Alphanumeric
Power	2 x CR2032 batteries
Power off Memory protection	Yes
Battery life	Up to 0.73 year @ 1 hr/day (approximately 9 months)
Weight	119 grams
Size (L × W × D)	15.8 × 8.3 × 1.61 cm (6.2 × 3.2 × .63 in)
Enclosure material	Plastic, rubber side grips and brushed metal faceplate
Key Top Material	Plastic
What's in the Box	Calculator, batteries, user manual, pouch
Warranty	1-year warranty
Subject Suitability	Engineering, Surveying, Science, Medicine
Permitted for use on	FE/PE, SAT I, SAT II Math IC/IIC, ACT, PSAT/NMSQT, AP Chemistry/Physics, PLAN, EXPLORE†

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